Ref No.3375

NKYO SERVICE MANUAL

STEREO CASSETTE TAPE DECK **MODEL TA-2700**

UDN, UDC, UD	120V AC, 60Hz
UG	220V AC, 50Hz
UW	120 or 220V AC, 50/60Hz
UQA, UQB	240V AC, 50Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS INDENTIFIED BY MARK ♠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PARTS NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT **EXPOSED PARTS ARE ACCEPTABLY** INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

Track Format:

4-tracks, 2-channels

Erasing System:

AC erase

Tape Speed:

4.8 cm/sec. (1-7/8 i.p.s.)

Wow and Flutter:

0.04% (WRMS) Frequency Response: 20-18,000Hz (Normal)

 $(30-17,000Hz \pm 3dB)$ 20-19,000Hz (High)

(30-18,000Hz±3dB) 20-20,000Hz (Metal)

 $(30-19,000Hz \pm 3dB)$

S/N Ratio:

60dB (metal tape, Dolby NR off)

A noise reduction of 10dB above 5kHz and 5dB at 1kHz is possible with Dolby B NR. A noise reduction of 20dB at 5kHz is possible with

Dolby C NR.

Input Jacks:

LINE IN: 2 Input sensitivity: 80mV

Input impedance: 50kohms

Outputs:

LINE OUT: 2

Standard output level: 500mV (0dB) Optimum load impedance:

over 50 kohms

Headphone jake: 1

Optimum load impedance: 8 to

200 ohms

Motors:

DC servo motor: 1

DC motor: 2

Heads:

REC/PB: Special Hard Permallov ×

Erase head: Ferrite × 1

Power Supply Rating: U.K. and Australian models:

AC 240V, 50Hz

U.S.A. and Canadian models:

AC 120V, 60Hz Worldwide models:

AC 120V and 220V switchable,

50/60Hz

Power Consumption:

Dimensions:

25 watts $435(W) \times 132(H) \times 366(D)$ mm

 $(17-1/8"\times5-3/16\times"14-3/8")$

Weight:

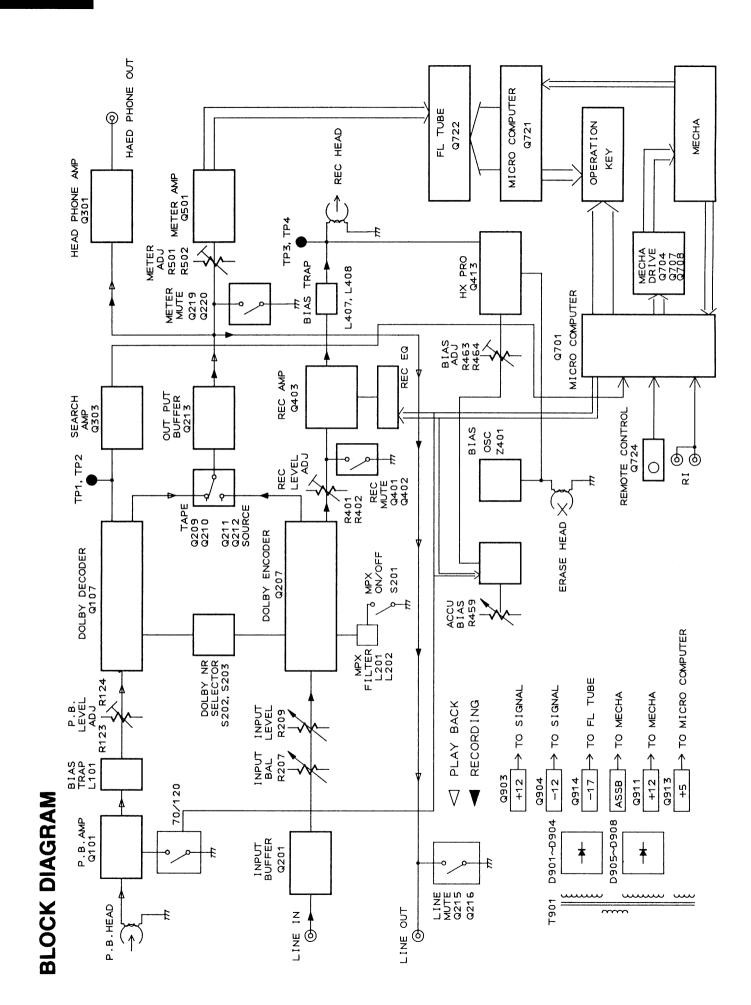
6.8kg (15 lbs.)

Supplied Accessories:

Connecting cable × 2

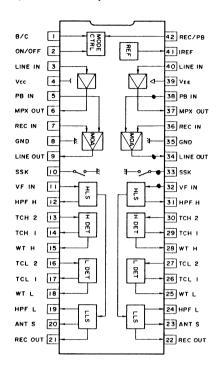
RC-169K remote control transmitter UM-4/R03/AAA battery \times 2

Specifications and external appearance are subject to change without notice because of product improvements.

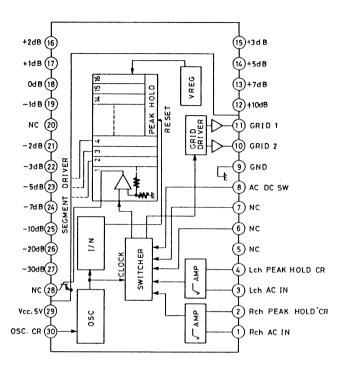


IC BLOCK DIAGRAM

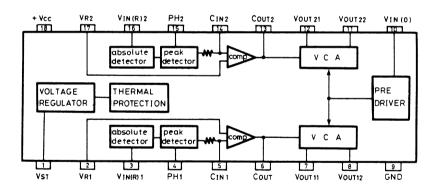
CXA20187 (DOLBY NR)



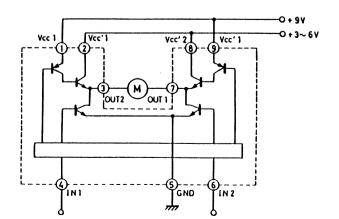
BA6800AS (METER DRIVE)



μ PC1297CA (HX PRO)



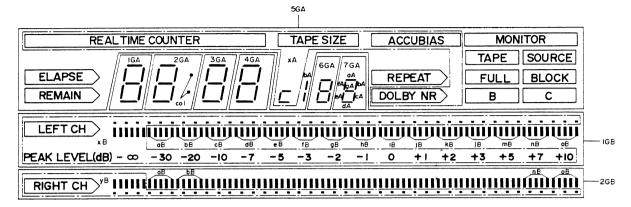
M54544AL (MOTOR DRIVE)



INI	PUT	OUT	PUT	
# 4	# 6	# 3	# 7	Remark
L	L	OFF	OFF	
н	L	н	L	FWD
L	н	L	н	REV
Н	н	L	L	Brake

BG-801G (DISPLAY TUBE)

GRID ASSIGNMENT

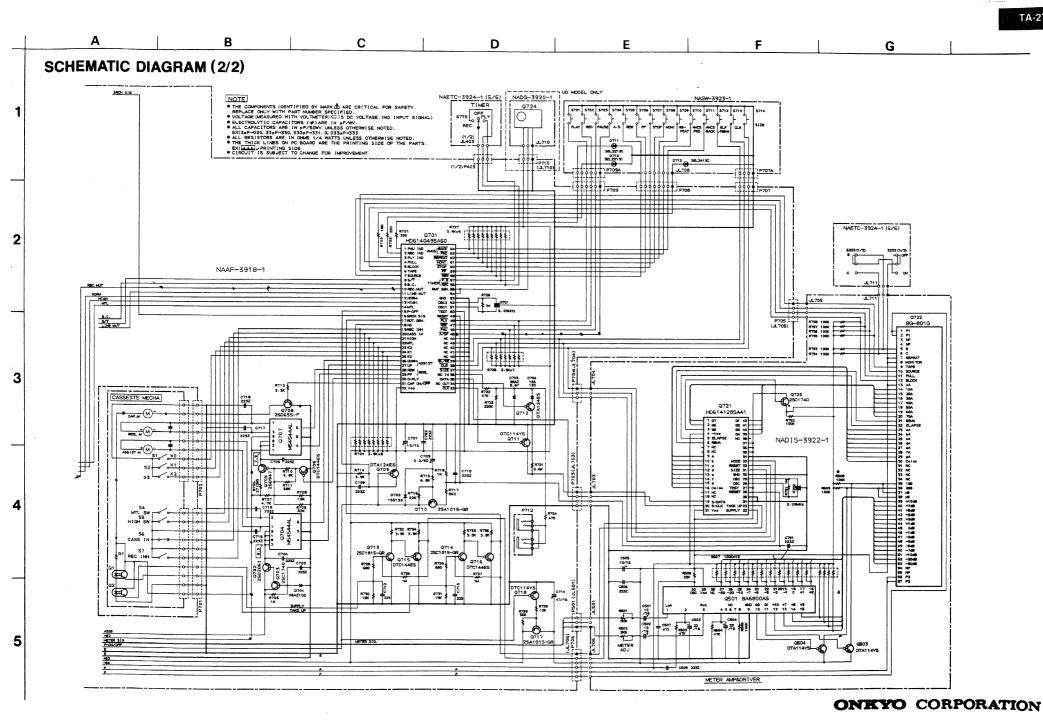


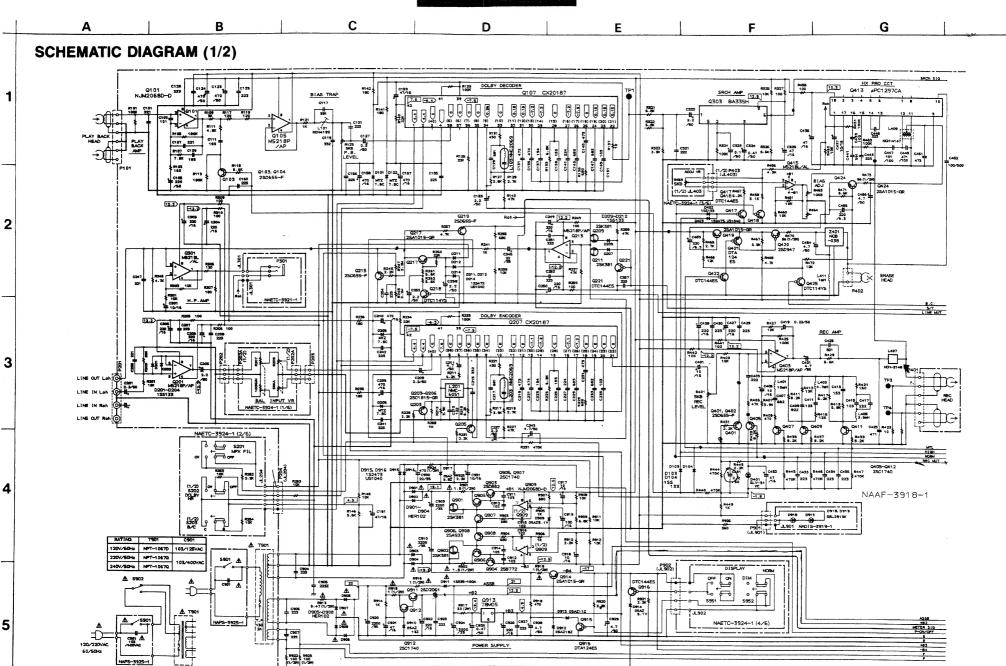
PIN CONNECTION

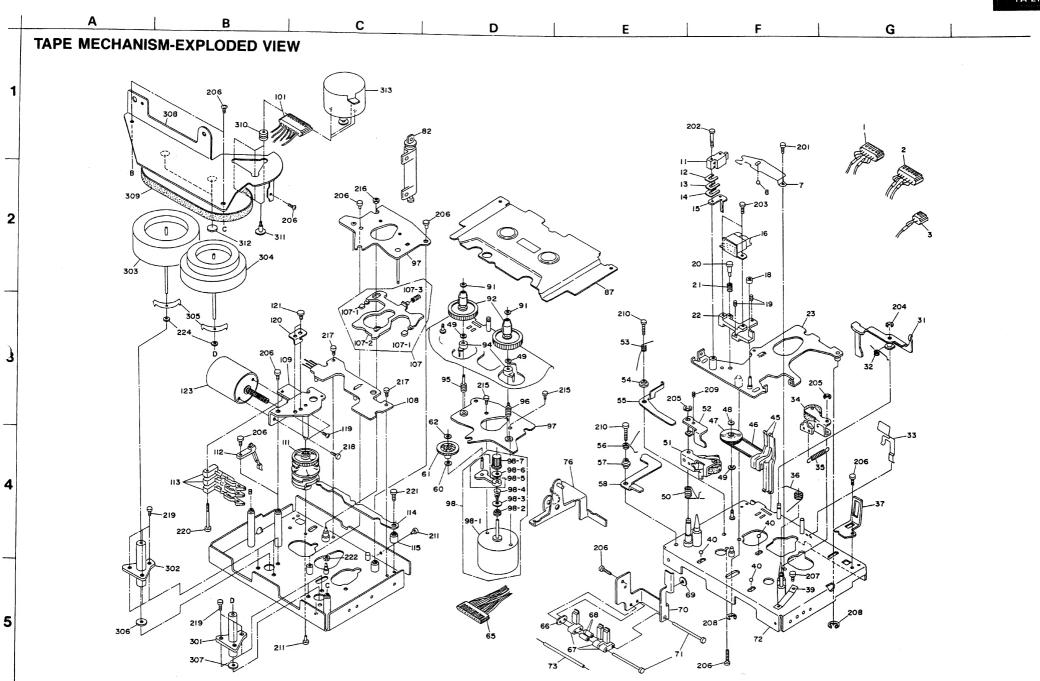
CONNECTION n o y x 2G 1G N N N N N N N N N	PIN NO.	40	39	38	37	136	6 3	5	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION F F N N a b c d e f g h i j k l m 2.)NCNo connection 3.)F1,F2Pilament	CONNECTION	1		y B	x B	20 B	GIO B I	G 3	И С	И С	И С	И С	h A	g A	f A	e A	d A	c A	b A	a A	j A	i A	7G A	6G A	5G A	4G A	3G A	2G A	1G A	x A	p A	0 A	n A	m A	e A	k A	r A	q A	N P	N P	F 1	F 1
CONNECTION F F N N a b c d e f g h i j k \ell m 2.)NCNo connection 3.)F1,F2Filament	PIN NO.	57	56	55	54	153	3 5	2	51	50	49	48	47	46	45	44	43	42	41		Not	e 1)N	P		N	o ni	n.	-													
	CONNECTION	F 2	F 2	N P	N P	a B	ı t	3	c B	d B	e B	f B	g B	h B	i B	j B	k B	ℓ B	m B			2	.)N(.)F1	C 1,F2		N	o co ilan	nne		n												

ANODE CONNECTION

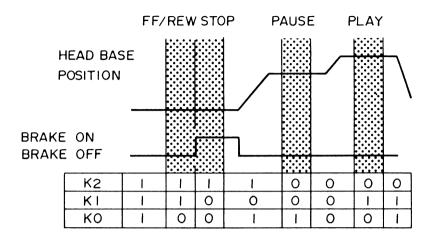
	1GA	2GA	3GA	4GA	5GA	6GA	7GA		1GB	2GB
aA	aA	aA	aA	aA	-	aA	аA	aВ	11111	11111
bA	bA	bA	bA	bА	/	bA	bA	bB	11111	11111
cA	cA	cA	cA	cA	-	cA	cA	- D		11111
dА	dA	dA	dA	dA	-	dA	dA	cB	11111	11111
eA	еA	еA	eА	еA	-	eА	еA	dB	IIIII	11111
fA	fA	fA	fA	fA	-	fA	fA	eB	11111	111111
gA	gA	gA	gA	gA	-	gA	gA	fB	11111	11111
hA	-	col	-	-	-	-	-			
iA	-	-	-	-	REMAIN	-		gB	11111	
jА	-	-	-	-	ELAPSE>	-	-	hB	11111	11111
kA	-	-	-	-	REPEAT	-	-	iB	11111	11111
ℓА	-	-	-		MONITOR	-	-	- D		
mA	-	-			TAPE	-	-	jВ	11111	11111
nА	-	-	-	-	SOURCE	-	-	kB	11111	11111
οA	-	-	-	-	FULL	-	-	ℓB	11111	11111
pА	-	-	-	-	BLOCK	-	- '	mB	11111	11111
qА		-	-	-	В	-	-			
rA	- '	-	-	-	С	-	-	nB	11111	11111
					REAL TIME COUNTER			oB	11111	11111
					TAPE SIZE				LEFT CH	
хA	-	_	-	-	ACCUBIAS	-	-	1		
					DOLBY NR			xВ	PEAK LEVEL	-
					/				(dB)~ + 10	
L	1	l	<u> </u>	L	<u> </u>	L	l			RIGHT CH>
								уВ	-	11111
									<u> </u>	



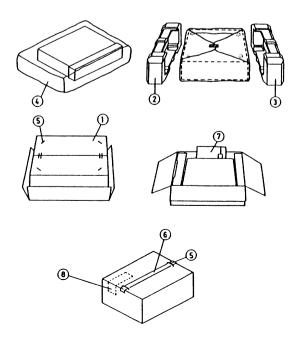




MECHANICAL POSITION CORD



PACKING VIEW



REF.NO.	PARTS NO.	DESCRIPTION
1	29052089A	Master carton box
2	29091264A	Pad (L)
3	29091265A	Pad (R)
4	29095608	Protection sheet
	29100105	620×550 Poly bag
5	282301	Sealing hook
6	29110071-1	Damplon tape
7	Accessary bag	ass'y
	29341540	Instruction manual (D/Q)
	29341541	Instruction manual (G/W/F)
	2010098A	Connection cable
	29100006A	350×250 Poly bag
	29365019	Warranty card (N)
	29365024	Warranty card (F)
	25055018	CV plug CV-K-1 (W)
	24140169	RC-169K, Remote control (D)
	3010124	UM-4, Batteries×(D)
	29358002H	Service station list (N)

NOTE: (D): Only 120V model (N): Only U.S. A. model (W): Only Worldwide model (F): Only France model (Q): Only 240V model

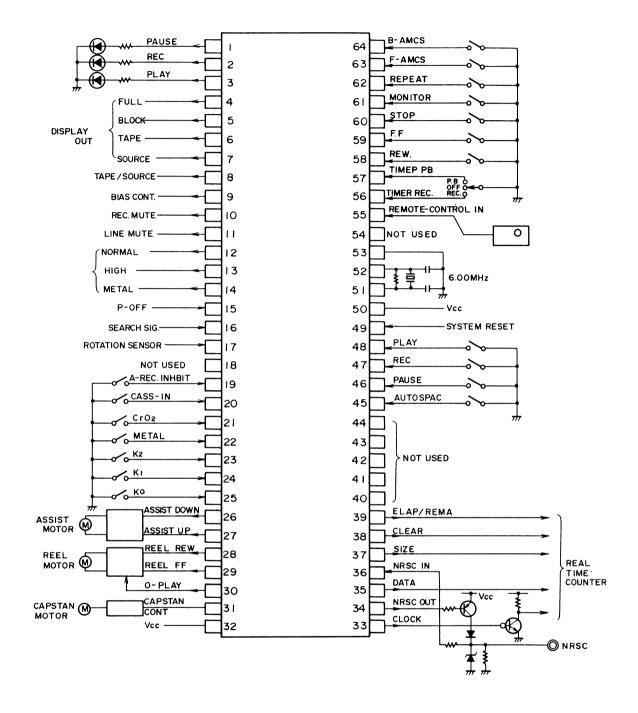
PRINTED CIRCUIT BOARD PARTS LIST

NAAF-3918-1

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	lcs		Q715, Q716	221282 or	DTC144ES or
Q101	222956	NJM-2068D-D		2213560	RN1204
Q105	222808 or	M5218P or	Q717	2211455	2SA1015-GR
	22240369	M5218AP	Q718	221281 or	DTC114YS or
Q107	222999	CX-20187		2213570	RN1207
Q201	222808 or	M5218P or	Q901, Q902	2212304 or	2SK381-D or
	22240369	M5218AP		2212305	2SK381-E
Q207	222999	CX-20187	Q903	2201285 or	2SD882-Q or
Q213	222808 or	M5218A P	0004	2201286	2SD882-P
0201	22240369	M5218AP	Q904	2201275 or	2SB772-Q or
Q301	222652 or 22240368	M5218L or M5218AL	Q905, Q907	2201276 2213284 or	2SB772-P 2SC1740S-R or
Q303	222940	BA335H	Q905, Q907	2213284 or 2213285	2SC1740S-R 0F 2SC1740S-S
Q403	222808 or	M5218P or	Q906-Q908	2213263 2213354 or	2SA933S-R or
Q403	22240369	M5218AP	Q900-Q906	2213355	2SA933S-R 01 2SA933S-S
Q413	222959	μPC1297CA	Q911	2202115 or	2SD2061-E or
Q415	222652 or	M5218L or	QJII	2202116	2SD2061-E 01 2SD2061-F
Q415	22240368	M5218AL	Q912	2213284 or	2SC1740S-R or
Q701	22240361	HD614049SA60	Q712	2213285	2SC1740S-S
Q704	222953	M-54544AL	O914	2211455	2SA1015-GR
Q707	222953	M-54544AL	Q915	2212600	DTA124ES
Q909	222956	NJM-2068D-D	Q916	221282 or	DTC144ES or
Q913	222780055MIT	78M05		2213560	RN1204
	Transistors			Diodes	
Q103, Q104	2211706	2SD655-F	D101, D102	224450753	MTZ7.5C
Q203-Q206	2211766	2SC1815-GR	D103, D104	223163	1SS133
Q209-Q212	2211233 2212304 or	2SK381-D or	D201-D204	223163	1SS133
Q207-Q212	2212305	2SK381-E	D205, D206	224450753	MTZ7.5C
Q215, Q216	2211706	2SD655-F	D207-D210	223163	1SS133
Q217	2211455	2SA1015-GR	D211, D212	223124 or	1S2473 or
O218	221281 or	DTC114YS or		223150	US1040
	2213570	RN1207	D214	223124 or	1S2473 or
Q219, Q220	2211706	2SD655-F		223150	US1040
Q221	221282 or	DTC144ES or	D401	225227	SLV-31VC
	2213560	RN1204	D402	223163	1SS133
Q401, Q402	2211706	2SD655-F	D403	223124 or	1S2473 or
Q405-Q412	2213284 or	2SC1740S-R or	D701	223150	US1040
	2213285	2SC1740S-S	D701	224451004 or 224151004	MTZ10D or 05AZ10R
Q417, Q418	221282 or	DTC144ES or	D702	223163	1SS133
0.446	2213560	RN1204	D702 D703	224150562	05AZ5.6Y
Q419	2211455	2\$A1015-GR	D703 D704	223163	1SS133
Q420	2201540	2SD947 DTA124ES	D901-D904	22380029	HER102
Q421	2212600		D905-D908	22380029	HER102
Q422	221282 or 2213560	DTC144ES or RN1204	D909	224150512	05AZ5.1Y
Q424	2213360	2SA1015-GR	D910	224151303	05AZ13Z
Q424 Q425	2211433 221281 or	DTC114YS or	D911	22380027	1SR35-100A
Q+23	2213570	RN1207	D912	224151803	05AZ18Z
Q702	2202115 or	2SD2061-E or	D913	224151103	05AZ11Z
Q. 102	2202116	2SD2061-F	D914	224150512	05AZ5.1Y
Q703	2213284 or	2SC1740S-R or	D915, D916	223124 or	1S2473 or
	2213285	2SC1740S-S		223150	US1040
Q705	2201540	2SD947	D917	224150683	05AZ6.8Z
Q706	221282 or	DTC144ES or		Coils	
	2213560	RN1204	L101, L102	231147	NCH-4199
Q708	2211706	2SD655-F	L103, L104	233382	NMC-2069
Q709	2212600	DTA124ES	L201, L202	233328	NMC-6051
Q710	2211455	2SA1015-GR	L203, L204	233382	NMC-2069
Q711	221281 or	DTC114YS or	L401, L402	231089	NCH-2137
0=1-	2213570	RN1207	L403, L404	231085	NCH-2133
Q712	2212600	DTA124ES	L405, L406	231083	NCH-2131
Q713, Q714	2211255	2SC1815-GR	L407, L408	231101	NCH-2148
			L409, L410	231100	NCH-4147
			L411 7401	231077	NCH-2125
			Z401	231149	NOB-038

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	Ceramic osc			Resistors	
X701	3010149	CST6.00MGW	R123, R124	5210216	N06HR5KBD
	Capacitors		R401, R402	5210216	N06HR5KBD
C101, C102	372122214	220PF50V, ST.	R463, R464	5210217	N06HR10KBD
C105, C106	391982217	220 μF50V, ELECT.	R470	442525604F	RS1/2WBJ 56 Ω
C103, C100 C123, C124	391984717	470 μF50V, ELECT.	R473	442525604F	RS1/2WBJ 56 Ω
C127, C128	391980227	2.2 μF50V, ELECT.	R704	49163392408	3.9 K $\Omega \times 8$, $1/10$ W
C153, C154	391980227	2.2 μF50V, ELECT.	R706	441722704F	RS2WBJ27 Ω
C157, C154	391944717	470 μF16V, ELECT.	R725	49163392407	3.9 K $\Omega \times 7$, $1/10$ W
C159, C161	391944707	47μF16V, ELECT.	R727	49163392409	3.9 K $\Omega \times 9$, $1/10$ W
C201-C204	391980227	$2.2\mu\text{F50V}$, ELECT.	R901, R902	442520154F	RS1/2WBJ 1.5 Ω
C205, C206	391942217	220 μF16V, ELECT.	R913	442524794F	RS1/2WBJ 0.47Ω
C209, C210	391980227	$2.2 \mu\text{F}50\text{V}$, ELECT.	R915, R916	442520104F	RS1/2WBJ 1Ω
C211, C212	391980477	4.7 μF50V, ELECT.	R917	441723304F	RS2WBJ 33 Ω
C237, C238	391980227	2.2 μF50V, ELECT.	R919	442520104F	RS1/2WBJ 1Ω
C239, C240	391944717	470 μF16V, ELECT.	R922, R923	442521014F	RS1/2WBJ 100Ω
C243	391980477	4.7 μF50V, ELECT.	R924	442524714F	RS1/2WBJ 470 Ω
C245, C246	391962207	22μ F35V, ELECT.		Plug, Socket	
C249, C250	391942217	220 μF16V, ELECT.	P101	25055136	NPLG-6P120
C253	391980227	2.2 μF50V, ELECT.	P201	25045165	4PDBL-59
C258	391980227	2.2 μF50V, ELECT.	P202, P203	25055147	NPLG-3P131
C301, C302	391941007	10μF16V, ELECT.	P204	25050270	NSCT-6P98
C303, C304	391942217	220 μF16V, ELECT.	P401	25055136	NPLG-6P120
C322	391980227	2.2 μF50V, ELECT.	P402	25055132	NPLG-2P116
C323	391981097	$0.1\mu\text{F}50\text{V}$, ELECT.	P403	25050270	NSCT-6P98
C324	391984797	0.47µF50V, ELECT.	P501	25050267	NSCT-3P95
C325	391944707	47μF16V, ELECT.	P701	25055139	NPLG-9P123
C401, C402	391941007	10μF16V, ELECT.	P702	25055140	NPLG-10P124
C405, C406	391941007	10μF16V, ELECT.	P703	25050268	NSCT-4P96
C419, C420	391982297	0.22µF50V, ELECT.	P704	25050267	NSCT-3P95
C421, C422	391980477	4.7 μF50V, ELECT.	P705	25050268	NSCT-4P96
C427, C428	391942217	220 μF16V, ELECT.	P706	25050270	NSCT-6P98
C431	391980227	2.2 μF50V, ELECT.	P707	25055134	NPLG-4P118
C432	391944707	47μF16V, ELECT.	P708	25050272	NSCT-8P100
C437	391941007	10μF16V, ELECT.	P709	25055444	NPLG-6P426
C438	391944707	47μF16V, ELECT.	P710	25050267	NSCT-3P95
C453, C455	391922217	220 μF6.3V, ELECT.	P712	25045172	HSJ1003-01-020
C454, C456	391980477	4.7 μF50V, ELECT.	P901	25050267	NSCT-3P95
C701	391941007	10μF16V, ELECT.	P902	25050268	NSCT-4P96
C709	391980227	$2.2 \mu\text{F}50\text{V}$, ELECT.		Miscellaneous	
C714	391944707	47μF16V, ELECT.			
C909, C910	391962227	2200μF35V, ELECT.		27141059 27160029-1	BRACKET, EARTH
C917, C918	391941007	10μF16V, ELECT.		27160229-1	RAD-078, RADIATOR
C919	391941017	100 μF16V, ELECT		27160211-1	RAD-68B, RADIATOR RAD-68, RADIATOR
C920	391962227	2200μF35V, ELECT.		27160211	
C921	391944707	47μF16V, ELECT.		82143006	RAD-07, RADIATOR 3P+6FN(BC), SCREW
C922	391942217	220 μF16V, ELECT.		02173000	SI TOLINGDE), SCREW
C925	391984797	0.47μ F50V, ELECT.			
C926	391942217	220 μF16V, ELECT.			
C928, C929	391980477	$4.7 \mu\text{F}50\text{V}$, ELECT.			
C930	393062207	22μ F35V, ELECT.			
C931	391941007	10μF16V, ELECT.			

MICRO COMPUTER (HD614049SA60)



MICRO COMPUTER (HD614049SA60)

Port No.	Name	Function
11	PAUSE LED	Pause indicator output
2	REC. LED	Record indicator output
3	PLAY LED	Play indicator output
4	FULL	Full repeat indicator output
5	BLOCK	Block repeat indicator output
6	TAPE	Tape monitor indicator output
7	SOURCE	Source monitor indicator output
8	TAPE/SOURCE	Monitor (tape/source) select output
9	BIAS CONTROL	Bias oscillator control output
10	REC. MUTE	Record muting output
11	LINE MUTE	Line muting output
12	NORMAL	Normal tape end detection output
13	HIGH	High tape end detection output
14	METAL	Metal tape end detection output
15	P-OFF	Power off detection input
16	SEARCH SIG.	Search signal input
17	ROTATION SENSOR	Reel rotation signal sensor input
18	NOT USED	
19	SIDE-A REC. INHIBITING	Side-A record inhibit pin sensor
20	CASSETTE IN	Cassette tape sensor switch input
21	CrO2	Tape type sensor switch input
22	METAL SWITCH	Tape type sensor switch input
23~25	MECHA. POSITION K2~K0	Mecha position sensor switch input
24	ASSIST DOWN	Assist motor drive output
27	ASSIST UP	Assist motor drive output
28	REEL REW	Reel motor REW rotation control output
29		
	REEL FF	Reel motor FF rotation control output
30	O-PLAY	Reel motor rotation torque control output
31	CAPSTAN CONTROL	capstan motor control output
32	V _{CC}	+5V
33	CLOCK	Master-slave communication clock output
34	NRSC OUT	serial code reciprocal control signal out
35	DATA OUT	Master-slave communication data output
36	NRSC IN	Serial code reciprocal control signal input
37	COUNTER SIZE	Tape size select output
38	COUNTER CLEAR	Tape counter clear output
39	COUNTER ELAP/REMA	Tape elapse/remain select output
40~44	NOT USED	
45	AUTO SPACE KEY	Auto space key input
46	PAUSE KEY	Pause key input
47	REC KEY	Record key input
48	PLAY KEY	Play key input
48		
	SYSTEM RESET	Computer system reset
50	TEST	
51, 52	OSC1, OSC2	System clock oscillator terminal
53	GND	
54	NOT USED	
55	REMOTE-CONTROL IN	Remote control signal input
56	TIMER REC.	Timer record input
57	TIMER PB.	Timer play input
58	REW KEY	REW key input
59	FF KEY	FF key input
60	STOP KEY	Stop key input
61	MONITOR KEY	Monitor select key input
62	REPEAT KEY	Repeat key input
	F-AMCS KEY	FWD play search signal input
63		

ADJUSTMENT PROCEDURES

PRECAUTIONS

- 1. Before adjustment, clean the following parts with an alchol moinstend swab.
 - * record/playback head
- * erase head
- * pinch roller
- capstan
- 2. Do not use magnetized screwdriver for adjustments.
- 3. Demagnetize record/playback head with a head demagnetizer.

TEST EQUIPMENT/TOOLS REQUIRED:

Audio oscillator

Digital frequency counter

Oscilloscope

Attenuator

AC voltmeter

Non-magnetic screw driver

Test tapes

TCC-153

: 10 KHz, -10dB

MTT-111

: 3 kHz, -10dB

MTT-150

: Dolby level calibration

400Hz, tone 200nWb/m

	Item	Connection of instrument	Line input	Test tape	Mode	Output indicator	Adjustment point	Adjust	Remaks
1	Tape speed	Frequency counter to LINE output terminal		MTT-111	PB	Frequency counter	Semi-fixed on the moter	3,005 to 3,010Hz	
2	Head azimuth	AC voltmeter and oscillo- scope to Line output terminal		TCC-153	РВ	AC voltmeter	Head azimuth screw	Maximum and same phase at channels L and R	
3	Playback level	AC voltmeter to terminals TP-L and TP-R		MTT-150	PB	AC voltmeter	R-123 (Ch. L) R-124 (Ch. R)	245mV	
4	Meter			MTT-150	РВ	Level meter	R-501 (Ch. L) R-502 (Ch. R)	0db	NAAF-3922
5	HX-PRO	AC voltmeter to terminals TP-3 and TP-4		METAL TAPE	REC	AC voltmeter	L-409 (Ch.L) L-410 (Ch.R)	Maximum	R-463 R-464 MAX
6	Bias current	AC voltmeter to LINE output terminal	1kHz, -20dB and 12kHz, -20dB	NEW XL-II90	REC/PB	AC voltmeter	R463 (Ch.L) R464 (Ch.R)	Same level at REC/PB	Input VR maximum.
_	Record		41.77		REC	AC voltmeter	Attenutor or AF OSC output	350mV	Input VR
7	level		1kHz		REC/PB	AC voltmeter	R401 (Ch.L) R402 (Ch.R)	Same level at REC/PB	maximum
8	Bias trap	AC voltmeter to LINE output termibal		METALTAPE	REC	AC voltmeter	L-101 (Ch. L) L-102 (Ch. R)	Min bias leakage	

Blank tape

NORMAL ... NEW UD-1 C-90

HIGH ... XL-II C-90 METAL ... MX C-60

PLAY torque ... 35~60g/cm FF. REW torque ... 70~180g/cm

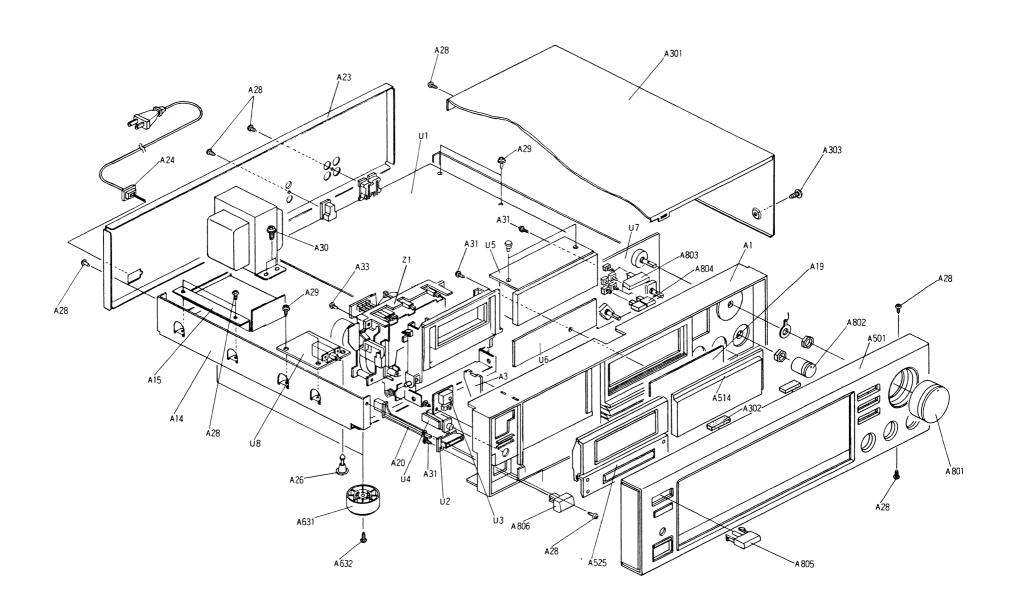
Back tention ... 2~7g/cm

ADJUSTMENT POINT

			☐ ☐ TPI TP2
R463 R464 BIAS	R401 X REC LI	R402 X EVEL	PB LEVEL RI23 RI24
	☐ TP3	□ TP4	LIOI LIO2
	O L409	O L410	NCAF-3918

×	⊗	
R501 MET	R502 ER ADJ	
	NCDIS -3922-1	

CHASSIS-EXPLODED VIEW



CHASSIS-EXPLODED NEW PART LIST

REF.NO.	PARTS NO.	DESCRIPTION
Al	27110574	FRONT BRACKET AS
A3	27273131	JOINT (EJ)
A13	28141062	CUSHION 20×10×6t
A14	27100210C	CHASSIS
A15	27130608-1A	BRACKET (PT)
A17	28140881	CUSHION
A19	28133243A	BACK PLATE
A20	27273069A	JOINT (POW)
A23	27121358	BACK PANEL (D)
	27121359	BACK PANEL (G)
	27121361	BACK PANEL (W)
	27121393	BACK PANEL (Q)
A24	27300750	BUSHING (CORD)
A26	27190524	HOLDER
A28	834430088	TAP-TIGHT SCREW
		3TTS+8B(BC)
A29	831130088	TAP-TIGHT SCREW 3TTW+8B
A30	830440069	TAP-TIGHT SCREW
		4TTC+6C(BC)
A31	833430080	TAP-TIGHT SCREW
		3TTP+8P(BC)
A32	831430100	TAP-TIGHT SCREW
		3TTW+10P(BC)
A33	838426088	TAP-TIGHT SCREW
		2.6TTB+8B(BC)
A301	28184401	TOPCOVER
A302	28140198	CUSHION $40 \times 10 \times 0.5t$
A303	838440089	TAP-TIGHT SCREW
		4TTB+8C(BC)
A501	1N090121UD	FRONT PANEL
A514	28191559	CLEAR PLATE
A525	28400597B	CASSETTE LID AS
-a	28400593	CASSETTE LID
-b	28400595A	CASSETTE LID
-c	28400596	WINDOW
-d	28194334	COSMETIC PLATE (WINDOW)
A631	27175153-1	LEG
A801	28323395A	KNOB (LEV)
A802	28323979	KNOB (BAL)
A803	28323981B	KNOB (PUSH)
A804	28323983A	KNOB (DOL)
A805	28323985	KNOB (EJ)
A806	28323987	KNOB (POW)

REF.NO.	PARTS NO.	DESCRIPTION
P901	▲ 253112A	AC CORD AS-UC-4(D)
	₹ 253149	AC CORD AS-CEE (G/W)
	A 253118	AC CORD AS-SAA (Q)
T901	₹ 2300527A	NPT-1067D (D)
	△ 2300528 A	NPT-1067G (G)
	△ 2300529B	NPT-1067DG (W)
	△ 2300530A	NPT-1067Q (Q)
S902	Δ 25065123	NSS-1258P (W)
U1	1N090518-1	NAAF-3918-1 (D)
	1N090518-1A	NAAF-3918-1A (G/W/Q)
U2	1N090519-1	NADIS-3919-1
U3	1N090520-1	NADG-3920-1
U4	1N090521-1	NAETC-3921-1
U5	1N090522-1	NADIS-3922-1
U6	1N090523-1	NASW-3923-1
U7	1N090524-1	NAETC-3924-1
U8	1N090525-1	NAPS-3925-1
W 901	2061112200	CRIMP CORD AS
W 902	2061112300	CRIMP AS
Z 1	244143	CASSETTE DECK MECHANISM NDM-135

NOTE: (D): Only 120V model (G): Only 220V model (W): Only Worldwide model (Q): Only 240V model

NOTE: THE COMPONENTS IDENTIFIED BY MARK A
ARE CRITICAL FOR RISK OF FIRE AND
ELECTRIC SHOCK. REPLACE ONLY WITH
PART NUMBER SPECIFIED.

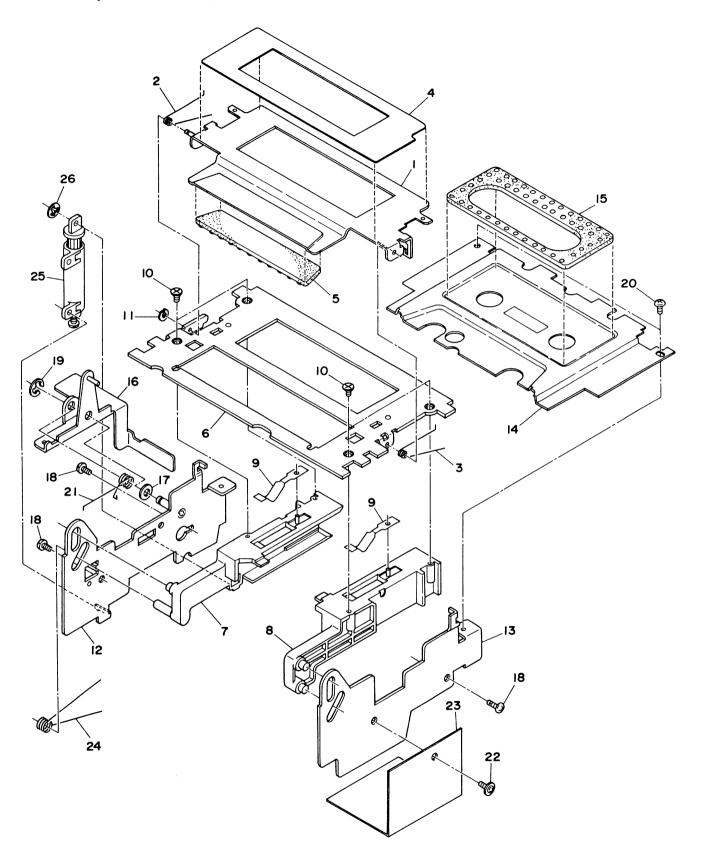
TAPE MECHANISM PART LIST

REF.NO.	PARTS NO.	DESCRIPTION	REF.NO.	PARTS NO.	DESCRIPTION
1	24606441	LEAD WIRE AS	98	24601261	REEL MOTOR AS
2	24606442	LEAD WIRE AS	98-1	24601169	REEL MOTOR
3	24606443	LEAD WIRE AS	98-2	24611048	SPRING STAND
7	24611481	PLATE (HEAD)	98-3	24610374	WASHER
8	24610943	STEEL BALL 3	98-4	24605467	SPRING
11	24600084	EHEAD	98-5	24602471	IDLER AS
12	24611060	SPACER 0.06t	98-6	24610970	FELT
13	24611061	SPACER 0.03t	98-7	24602237A	GEAR (MOTOR)
14	24611062	SPACER 0.1t	101	24606445	LEAD WIRE AS
15	24610653	BRACKETB (E HEAD)	107	24611043	BRAKE PLATE AS
16	24600082	R/P HEAD	107-1	24610999	BRAKE RUBBER
18	24610495	ADJUSTING NUT	107-2	24611053A	BRAKE PLATE
19	801251	SCREW M2×4	107-3	24605472	SPRING
20	24610652	SHAFT	108	24606446	P.C.B. AS (SENSOR)
21	24605502	SPRING	109	24611482	BRACKET AS
22	24611046	HEAD BLOCK	111	24602532	CAM GEAR
23	24611064	HEAD BASE AS	112	24606104	LEAF SWITCH
31	24603284	LEVER (READER)	113	24606119	LEAF SWITCH CONNECTING PLATE
32	24605506	SPRING	114 115	24611075 24604064	COLLAR
33	24605507	SPRING (CASSETTE) PINCH ROLLER AS	119	24611483	THRUST WASHER (B)
34	24602270	SPRING	120	24611484	THRUST WASHER
35	24605244 24605709	SPRING	121	24609047	TAP-TIGHT SCREW
36	24610659A	PROTECTOR	123	24601263	PAD MOTOR AS
37 39	24605188	SPRING (CASSETTE)	201	833130047	TAP-TIGHT SCREW M3×4
39 40	24610351	STEEL BALL (CHASSIS 22)	202	82512012	BIND SCREW M2×12
45	24603205	LEVER (REC)	203	801250	PAN-HEAD SCREW M2+4SW
45 46	24602271	BELT BELT	204	8930251	E WASHER
40 47	24601167	PULLEY AS	205	8930201	EWASHER
48	24611003	WASHER 1.8×3.8×0.5	206	833125069	SCREW
49	24611047	WASHER 2.1×4.5×0.1	207	801292	TAP-TIGHT SCREW M2×3.2
50	24605707	SPRING	208	893030	E WASHER 3
51	24602478	PINCH ROLLER AS	209	801263	SCREW M2×3
52	24611065	LEVER (ADJUSTIŃG)	210	24609014	SCREW M2.5×8
53	24605510	SPRING	211	801325	PAN HEAD SCREW M2+5 SW
54	24604065	COLLAR	215	82512603	BIND SCREW
55	24603286	LEVER (SELECTOR)	216	863720	NUT N-2BSNI
56	24605710	SPRING	217	83312604	TAP-TIGHT SCREW M2.6×4
57	24604052	COLLAR	218	801259	SCREW M2+3
58	24611066	LOCK PLATE	219	833125059	TAP-TIGHT SCREW M2.5+20
60	24611141	WASHER $1.7 \times 6 \times 0.25$	221	833126127	TAP-TIGHT 2.6TTP+12S
61	24602531	GEAR	222	863126	NUT N-2.6F
62	24610969	WASHER	224	24610515	WASHER
65	24606447	LEAD WIRE AS	301	24611372	STAND AS (CAPSTAN)
66	24611057	WASHER	302	24611373	STAND AS (CAPSTAN)
67	24606205	LEAFSWITCH	303	24602472	FLYWHEEL
68	24604063	COLLAR	304	24602473	FLYWHEEL
69	24611142	WASHER $2.7 \times 5 \times 0.5$	305	24605452	SPRING (THRUST)
70	24611068	BRACKET (SW)	306	24611485	WASHER
71	82112030	PAN HEAD SCREW	307	24611486	WASHER
72	24611370	MECHANISM CHASSIS AS	308	24611376	BRACKET
73	24606444	LEAD WIRE	309	24602476	BELT
76	24603285	LEVER (CANCEL)	310	24610723	CUSHION SCREW (MOTOR)
82	24611380	DUMPER UNIT BACK PLATE (CASSETTE)	311	24609015	THRUST WASHER
87	24611476A	,	312	24611377 24601264	CAPSTAN MOTOR AS
91	24610349	WASHER 1.8×3.2×0.5 REEL AS	313	Z#0U1Z04	CAISTAN MOTOR AS
92	24602534	SPRING STAND			
94	24611072 24605505	SPRING STAND SPRING			
95 96	24605505	SPRING			
96 97	24603301	BRACKET AS (MOTOR)			
71	240113/1	Dividital no (mo ton)			

FRAME (CASSETTE) EXPLODED VIEW PART LIST

REF.NO.	PARTS NO.	DESCRIPTION
1	24611451A	PLATE AS (S)
2	24605748	SPRING (L)
3	24605749	SPRING (R)
4	24611452	PLATE(K)
5	24611457	CUSHION (A)
6	24611450	PLATE (A)
7	24611455	HOLDER (L)
8	24611456	HOLDER (R)
9	24605750A	SPRING
10	801437	TAPPING SCREW
11	24611459	PLASTIC WASHER
12	24611453A	-
13	24611454A	SIDE BRACKET (R)
14	24611476A	BACK PLATE (CASSETTE)
15	2461458	CUSHION (B)
16	24603285	LEVER (CANCEL)
17	8761401005	WASHER FW $4 \times 10 \times 0.5$ t
18	833425059	TAP-TIGHT SCREW
		2.5TTP+5C (BC)
19	893030S	E WASHER 3
20	833426039	TAP-TIGHT SCREW
		2.6TTP+3C (BC)
21	24605753	SPRING
22	831126068	TAPPING SCREW
		2.6TTW+6B (BC)
23	24611480	COVER (FW)
24	24605747	SPRING (EJECT)
25	24611380	DUMPER UNIT
26	891024	STOPRING

FRAME (CASSETTE) EXPLODED VIEW



PRINTED CIRCUIT BOARD PARTS LIST

NADIS-3919-1			NASW-3923-1			
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	
D918, D919	LED 225142 Holder 27190454A	SEL2913K HOLDER(PLED)	D710, D711 D712	225141 225137CG, 225137DG or 225137DY	SEL2213C SEL2413CG, SEL2413DG or SEL2413DY	
NADG-3920-1			S701-S714	Switch 25035548	NPS-111-510	
CIRCUIT NO.	PART NO.	DESCRIPTION	3/01-3/14	Socket	NF3-111-310	
Q724	24130003	GP1U50XS	P707A P709A	2005230415 2006391215	NSAS-4P0003 NSAS-12P0131	
NAETC-3921 CIRCUIT NO.	-1 PART NO.	DESCRIPTION		Holder 27190764	HOLDER(LED4)	
P301	25045139	HLJ0540-01-010	NAETC-3924-1			
NADIS-3922-1			CIRCUIT NO.	PART NO.	DESCRIPTION	
CIRCUIT NO.	PART NO. Ic 22240170	DESCRIPTION BA6800AS	R207 R209 R459	Resistor 5104268 5104260 5104271	N14RGLC100KMN25Z N16RGL50KA25Z N14RLC5KB25Z	
Q721 Q722	22240084 Display 212086	HD614128SA41 BG-801G	S201-S203 S751	Switch 25035514 25030327	NPS-122-L47G NRSF-113-25SRB	
Q503, Q504	Transistor 2213090	DTA114YS	S951, S952	25035514 Socket	NPS-122-L476	
X702	Ceramic osc 3010143	CST3.00MGW	P202A 2000886 NSAS-6P832 NAPS-3925-1		NSAS-0F032	
C501, C502 C503, C504 C505	Capasitor 391941007 10μF16V, ELECT. 391942207 22μF16V, ELECT. 391941007 10μF16V, ELECT.	CIRCUIT NO. C901 S901	PART NO. 3500065A 25035558 25060092	DESCRIPTION $0.01\mu\mathrm{F}$, AC400V/125V, IS. NPS-111-L520P, PUSH SWITCH NMT-1S33, TERMINAL		
R501, R502 5215044 R507 49163104415	N08HR5KBC 100kΩ×15, 1/10W					
	Miscellaneous 27130611 880009	BRACKET(FL) NRP-345, REVET				

ONKYO CORPORATION

International Division: Onarimon Yusen Bldg., 23-5, Nishi-Shimbashi 3-chome, Minato-ku, TOKYO 105, JAPAN Tel: 03-432-6987 Fax: 03-436-6979 TLX: 242-3551 ONKYO J

ONKYO U.S.A. CORPORATION

200 Williams Drive, Ramsey, N.J. 07446, U.S.A. Tel: 201-825-7950 Fax: 201-825-8150

ONKYO EUROPE GMBH

Hellersbergstrasse 4, 4040 Neuss, WEST GERMANY

Tel: 02101 12 00 75 Fax: 02101 10 33 06 TLX: 85 17 916 ONDU D